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☐ 1: D13595. *Oryza sativa* (jap...[gi:218096])

Links

LOCUS RICG271A 256 bp DNA linear STS 29-MAY-2002
 DEFINITION *Oryza sativa* (japonica cultivar-group) DNA, partial sequence of RFLP marker, clone G271, sequence tagged site.

ACCESSION D13595

VERSION D13595.1 GI:218096

KEYWORDS STS; RFLP marker; restriction fragment length polymorphism.

SOURCE *Oryza sativa* (japonica cultivar-group)ORGANISM *Oryza sativa* (japonica cultivar-group)

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
 Ehrhartoideae; Oryzeae; *Oryza*.

REFERENCE 1 (bases 1 to 256)

AUTHORS Minobe,Y.

TITLE Nucleotide sequence of sequence tagged site from rice RFLP marker probe

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 256)

AUTHORS Minobe,Y.

TITLE Direct Submission

JOURNAL Submitted (09-NOV-1992) Yuzo Minobe, National Institute of
 Agrobiological Resources, Rice Genome Research Program; Kannondai
 2-1-2, Tsukuba, Ibaraki 305, Japan
 (E-mail:MINOBE@rtcs0.riken.go.jp, Tel:0298-38-7441,
 Fax:0298-38-7468)

COMMENT Submitted (09-NOV-1992) to DDBJ by:

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National Institute of Agrobiological Resources

2-1-2 Kannondai

Tsukuba, Ibaraki 305

Japan

Phone: 0298-38-7441

Fax: 0298-38-7468.

FEATURES

source

Location/Qualifiers

1..256

/organism="Oryza sativa (japonica cultivar-group)"

/mol_type="genomic DNA"

/cultivar="Nipponbare"

/db_xref="taxon:39947"

/chromosome="4"

BASE COUNT

91 a

59 c

54 g

52 t

ORIGIN

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1 ctgcagccag taggaaaaca agttcaccgc atgatgcact tcaggtgagc caataggaaa
61 acaagacgtt gataaactat ccagatatcg gatgaaaaat tcagtgaaga tacaaccaca
121 acagtataat caacgaactg cttttctttt actgacgacc ggccgattaa ctacgctgtc
181 aatgccagca atatgtactt aacgaagcac caagaaacgc actccacatt ggtgaacggg
241 gaggaccaga gttcga

```

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☐ 1: D13595. *Oryza sativa* (jap...[gi:218096])

Links

LOCUS RIC271GN1 256 bp DNA linear PLN 22-JAN-1993/
DEFINITION Rice DNA, partial sequence of RFLP marker.
ACCESSION D13595
VERSION D13595 GI:218096
KEYWORDS RFLP marker; STS sequence; restriction fragment length
polymorphism; sequence tagged site..
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 256)
AUTHORS Minobe,Y.
TITLE Nucleotide sequence of sequence tagged site from rice RFLP marker
probe
JOURNAL Unpublished (1992)
COMMENT Submitted (09-NOV-1992) to DDBJ by: Yuzo Minobe
Rice Genome Research Program
National Institute of Agrobiological Resources
2-1-2 Kannondai
Tsukuba, Ibaraki 305
Japan
Phone: 0298-38-7441
Fax: 0298-38-7468.
FEATURES Location/Qualifiers
source 1..256
/organism="unknown"
misc_feature 1..256
/note="STS (sequence tagged site); laboratory sequence
name: GN271A"
BASE COUNT 91 a 59 c 54 g 52 t
ORIGIN Chromosome 4.
1 ctgcagccag taggaaaaca agttcaccgc atgatgcact tcagggtgagc caataggaaa
61 acaagacggt gataaactat ccagatatcg gatgaaaaat tcagtgaaga tacaaccaca
121 acagtataat caacgaactg cttttctttt actgacgacc ggccgattaa ctacgtgtgc
181 aatgccagca atatgtactt aacgaagcac caagaaacgc actccacatt ggtgaacggg
241 gaggaccaga gttcga

//

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Revision history for "D13595"

| GI | Version | Update Date | Status |
|--------|---------|-----------------------------------|--------|
| 218096 | 1 | May 28 2002 23:21 | Live |
| 218096 | 1 | Mar 23 2002 23:10 | Dead |
| 218096 | 1 | Apr 1 1999 3:14 | Dead |
| 218096 | 1 | Mar 17 1999 22:12 | Dead |
| 218096 | 1 | Jun 5 1997 18:00 | Dead |
| 218096 | 1 | Jan 24 1996 15:29 | Dead |
| 218096 | 1 | Dec 17 1993 0:21 | Dead |
| 218096 | 1 | Jun 11 1993 18:02 | Dead |
| 218096 | 1 | Apr 28 1993 18:27 | Dead |

Accession D13595 was first seen at NCBI on Apr 28 1993 18:27/

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Introduction

In RGP, we have constructed high density RFLP linkage map of rice using an F2 population derived from Nipponbare (japonica) and Kasalath(indica). Based on clones analyzed to construct this map, we have been investigating the frequency of RFLPs between japonica rice varieties to examine the possibility of developing an RFLP linkage map.

15 japonica varieties(10 local varieties and 5 improved varieties) and 1 indica variety(listed below) were used for the analysis.

Local japonica varieties

| | |
|----------|----------|
| Ooba | Asahi |
| Aikoku | Akage |
| Takenari | Futaba |
| Kamenoo | Kameji |
| Jukkoku | Shinriki |

Improved japonica varieties

| | |
|-------------|--------------|
| Nipponbare | Todorokiwase |
| Akihikari | Kinuhikari |
| Koshihikari | |

Indica variety

Milyang 23

Following 8 kinds of restriction enzymes were used for the analysis.

BamHI, BglII, EcoRV, HindIII, ApaI, DraI, EcoRV and KpnI

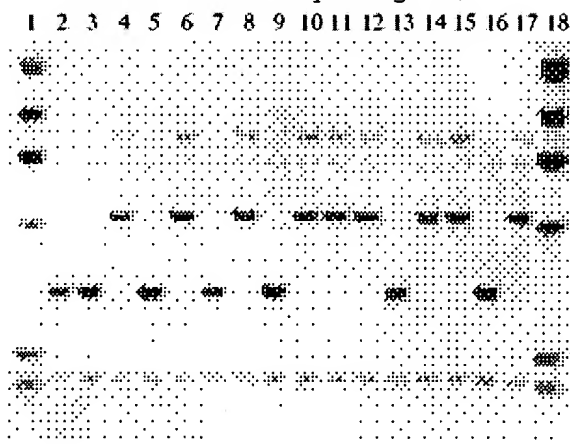
Selection of probes

Probes were selected based on rice (Nipponbare) cDNA and genomic clones which previously mapped to our high density RFLP linkage map.

Example :Auto radiogram (not available) of RA2394 (Restriction enzyme:BglII)

1 lambda/HindIII size marker

2 Ooba
3 Asahi
4 Aikoku
5 Nipponbare
6 Akage
7 Takenari
8 Futaba
9 Kamenoo
10 Kameji
11 Jukkoku
12 Todorokiwase
13 Akihikari
14 Kinuhikari
15 Koshihikari
16 Shinriki



17 Milyang 23

18 lambda/hindIII size marker

RFLPs were scored for each enzyme and each of 120 combinations of 16 varieties. In the data sheet, the enzyme that can detect RFLP are indicated as "A" for BamHI, "B" for BglII, "C" for EcoRV, "D" for HindIII, "E" for ApaI, "F" for DraI, "G" for EcoRI and "H" for KpnI.

Data sheet

| | 1 | 2 | 3 | 4 | 5 | 6 |
|-------------|----------|---------|------------|---------|----------|--------|
| Combination | Ooba | Ooba | Ooba | Ooba | Ooba | Ooba |
| Clone Name | Asahi | Aikoku | Nipponbare | Akage | Takenari | Futaba |
| RA2394 | 0 | BC | 0 | BC | 0 | BC |
| CK1115 | A | A | A | 0 | A | ADE |
| RA2147 | A | 0 | 0 | 0 | 0 | A |
| CK600 | AB | AB | AB | AB | AB | |
| G235 | ABC | ABC | ABC | ABC | ABC | |
| RA1854 | ABCDEFG | ABCDEFG | ABCDEFG | ABCDEFG | 0 | ABCDE |
| CK226 | ABCDEFGH | 0 | 0 | 0 | ABCDEFGH | BCDEH |

Following table shows frequencies of RFLP in a given varietal combination. Data sheet for each combination is available with links to our FTP server. Click the number or "ALL" for the master sheet which contains whole data of all combinations, enzymes and probes.

| | Oo | As | Ai | Ni | Ak | Ta | Fu | Kn | Kj | Ju | To | Ah | Ki | Ko | Sh | Mi |
|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| Ooba | * | 53 | 46 | 49 | 68 | 56 | 62 | 49 | 55 | 53 | 47 | 60 | 54 | 53 | 53 | 325 |
| Asahi | | * | 50 | 30 | 62 | 48 | 36 | 61 | 57 | 36 | 52 | 45 | 48 | 48 | 32 | 322 |
| Aikoku | | | * | 48 | 60 | 52 | 61 | 60 | 55 | 42 | 48 | 56 | 45 | 43 | 53 | 323 |
| Nipponbare | | | | * | 69 | 57 | 55 | 56 | 62 | 37 | 45 | 57 | 49 | 42 | 42 | 326 |
| Akage | | | | | * | 60 | 69 | 60 | 66 | 64 | 63 | 71 | 68 | 69 | 62 | 323 |
| Takenari | | | | | | * | 58 | 68 | 60 | 55 | 56 | 55 | 61 | 61 | 51 | 325 |
| Futaba | | | | | | | * | 70 | 61 | 50 | 63 | 50 | 49 | 63 | 44 | 323 |
| Kamenoo | | | | | | | | * | 64 | 52 | 58 | 58 | 62 | 58 | 67 | 326 |
| Kameji | | | | | | | | | * | 53 | 63 | 69 | 63 | 62 | 60 | 325 |
| Jukkoku | | | | | | | | | | * | 42 | 48 | 40 | 37 | 45 | 324 |
| Todorokiwase | | | | | | | | | | | * | 41 | 39 | 27 | 51 | 322 |
| Akihikari | | | | | | | | | | | | * | 38 | 40 | 60 | 326 |
| Kinuhikari | | | | | | | | | | | | | * | 35 | 50 | 323 |
| Koshihikari | | | | | | | | | | | | | | * | 47 | 327 |
| Shinriki | | | | | | | | | | | | | | | * | 324 |
| Milyang 23 | | | | | | | | | | | | | | | | * |

ALL 400 probes have been analyzed (Sep.1st.1996)

For more information, please contact by email Masahiro Yano at myano@abr.affrc.go.jp.